ABSTRACT OF THE DISCLOSURE

There are provided a positioning-controlling apparatus and a positioning-controlling method in which a rotary encoder (2) detects the Z phase before the subject (4) is returned to the origin which is the position of the Z phase detected by the linear encoder (5). The driving mode of the servo motor (1) is switched from rectangular waveform pulse driving to sine waveform pulse driving upon the detection of the Z phase by the rotary encoder (2). The subject's moving direction for returning to the origin may be previously specified, and in which the detection of the ON state of the origin sensor (11), the detection of the Z phase by the rotary encoder (2), and the detection of the Z phase by the linear encoder (5) are done in this order, while the subject (4) is being moved in the above specified direction. Alternatively, the rotary encoder (2) may detect the CS phase instead of the Z phase.